we will implement

- · Initial permutation.
- · final perunutation.

A Python code implementation:

1-11

def peremutation. (input-bits, peremutation box):

returen ". join (input bits[i-1] forc i in peremutation box)

DATE 7 /

TP_BOX = [58, 50, 42, 34, 26, 18, 10, 12, 60, 52, 44, 36, 28, 20, 12, 4, 62, 54, 34, 36, 28, 20, 12, 4, 6, 62, 54, 34, 36, 38, 30, 22, 14, 6, 64, 56, 48, 40, 32, 24, 16, 8, 57, 49, 41, 33, 25, 17, 9, 4, 59, 51, 43, 35, 27, 19, 11, 3 61, 53, 45, 67, 29, 21, 13, 5 63, 55, 47, 39, 31, 23, 15, 7]

TOPIC NAME !

FRBOX = [IPBOX. index(i)+1 for i in range (1.65)]

DATE:

COMPRESSION -BOX = [14,17,11, 24,1,5 3,28,15,6, 21,10 23,19,12, 4,26,8 16,7,27, 20,13,2 141,52,31,37,47,55 30,40,51,45,33,48 45,49,39,56,34,53 46,42,50,36,29,32

def demo (input_64bit binary: 5trs):

preint ("original: ", input 64bit binary)

ip = apply_permutation (input_64 bit binary)

preint ("After [p: " ", ip)

final = apply_perconutation(ip, FlBox)

print ("final perconutation", final)

Sample_64: 0110LL1000L01L000LL10L08L0LL1